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(71) Applicant: KIRIN BREWERY CO LTD

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(72) Inventor: NAGASHIMA KAZUFUMI

(54) PLASTIC CONTAINER COATED WITH CARBON FILM

the container 20 placed along the external electrode 12.

(57) Abstract:

PURPOSE: To prevent sorption of low organic compound such as odorous component with high gas barriering capacity provided by a method wherein hard carbon film is formed by plasma CVD method to the internal face of a container formed of plastics.

CONSTITUTION: A plastic container 20 is inserted into an external electrode 12 having a space slightly bigger than the external shape of the container 20 with a cover 12B removed, and an internal electrode 16 is inserted into the container 20. After positioning is made with the mouth 20A of the container placed on an insulating plate 11, the cover 12B is put for sealing and exhaustion is made with a vacuum pump. Then, stock gas serving as a carbon source is supplied through a stock gas supply pipe 17 and is sent into the vacuous space 21B through spouts 16A. Electric power is supplied from a high frequency power source 14 to the external electrode 12 through a matching device 13. Then, plasma is generated between the external electrode 12 and the earthed internal electrode 16. Thereby, diamond-like carbon film is formed uniformly to the internal face of

